

CLAIMS

- 1     1. A scanning device comprising:  
2         a shell;  
3         a driving module;  
4         an image capturing module, driven by said  
5     driving module for capturing an image of a document,  
6     further transforming said image to digital signal;  
7     and  
8         a fixed masking module, fixedly mounted inside  
9     the shell for obstructing a light path,  
10        wherein said image capturing module is moved by  
11     said driving module to a predetermined position  
12     where said fixed marking module is mounted, for  
13     obstructing said light path, thus black calibration  
14     is conducted.
- 1     2. The scanning device of claim 1, wherein said  
2     shell comprises a transparent window, positioned at  
3     an end of said shell for placing said document.
- 1     3. The scanning device of claim 2, wherein said  
2     transparent window is a glass plate.
- 1     4. The scanning device of claim 1, wherein said  
2     driving module comprises:  
3         an actuator, positioned at one side of said  
4     driving module, for providing a driving force; and  
5         a guiding rod, mounted inside the shell for  
6     guiding said image capturing module.

1        5. The scanning device of claim 4, wherein said  
2        actuator is a motor.

1        6. The scanning device of claim 1, wherein said  
2        image capturing module comprises:  
3                a light source for propagating light; and  
4                an image sensing element for capturing said  
5        image and transforming said image into digital  
6        signals.

1        7. The scanning device of claim 6, wherein said  
2        image sensing element is a charged-couple device  
3        (CCD) .

1        8. The scanning device of claim 1, wherein said  
2        image capturing module comprises:  
3                a cover; and  
4                plural reflecting plates, positioned inside  
5        said shell, for altering said light path.

1        9. The scanning device of claim 1, wherein said  
2        fixed masking module comprises a mask, mounted at a  
3        predetermined position, parallel to the movement of  
4        said image capturing module for obstructing said  
5        light path.

1        10. The scanning device of claim 1, wherein said  
2        image capturing module comprises an opening, formed  
3        in said cover for allowing said mask passing through  
4        in order to obstruct said light path.

1 11. The scanning device of claim 9, wherein said  
2 mask is not transparent.

1 12. A method for obstructing a light path by a fixed  
2 mask comprising the steps of:

3 driving an image capturing module to a  
4 predetermined position where said fixed mask is  
5 mounted, for obstructing said light path into an  
6 image sensing element of said image capturing  
7 module;

8 capturing said image by said image sensing  
9 element; and

10 transforming said image to digital signals for  
11 completing black calibration.

1 13. The method of claim 12, wherein said image is a  
2 stand black image.

1 14. The method of claim 12, wherein said  
2 predetermined position is a place for a driving  
3 module to move said image capturing module to said  
4 fixed mask which said light path is obstructed.